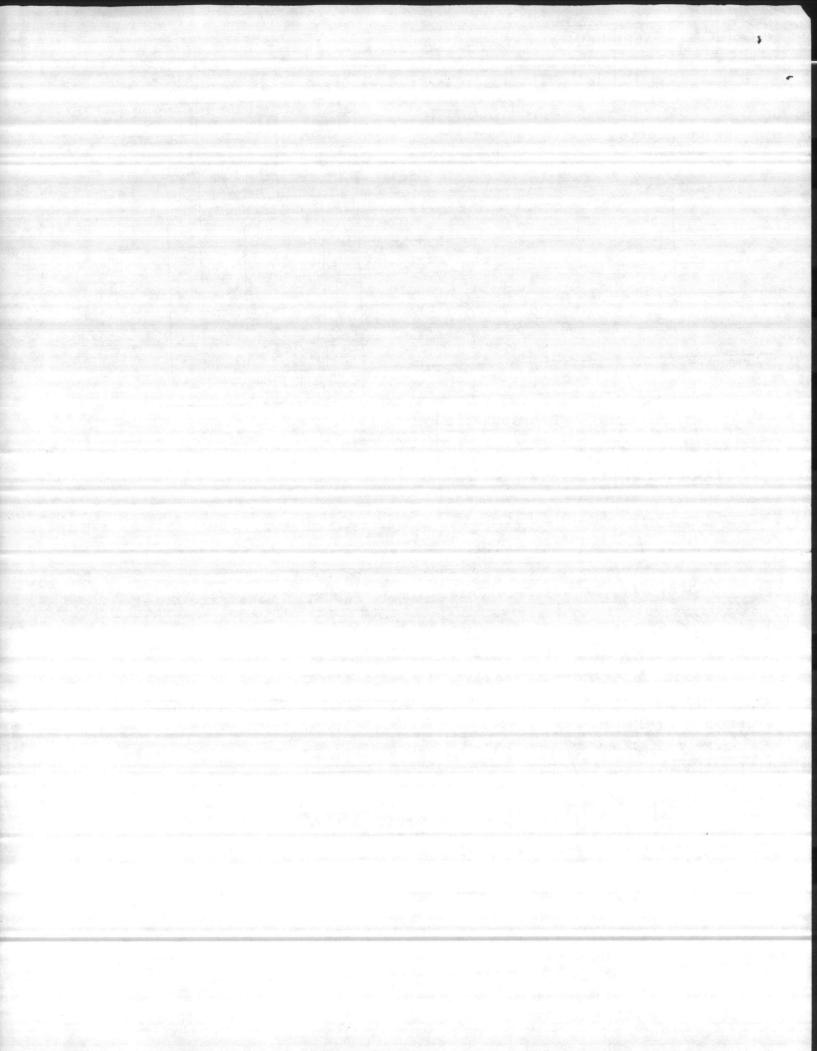
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#### 1. JOB SUMMARY

This position is located in the Fire Prevention Section of the Fire Protection Division, Marine Corps Base, Camp Lejeune, North Carolina. The incumbent performs maintenance, repair, installation, modification and testing of all sprinkler systems utilized for fire protection and their appurtenances, such as: heat actuating devices, valves of various types, automatic tripping mechanisms, pneumatic controls, air compressors, electric and water alarm bells, electric relays heaters, pressure switches and alarm switches. A large percentage of incumbent's time is spent on performing the above actions on the systems pneumatic, electrical, and mechanical controls. This is a non-sensitive position.

### 2. TYPICAL WORK PERFORMED

### a. Rate of Rise Deluge--Open Head Systems:

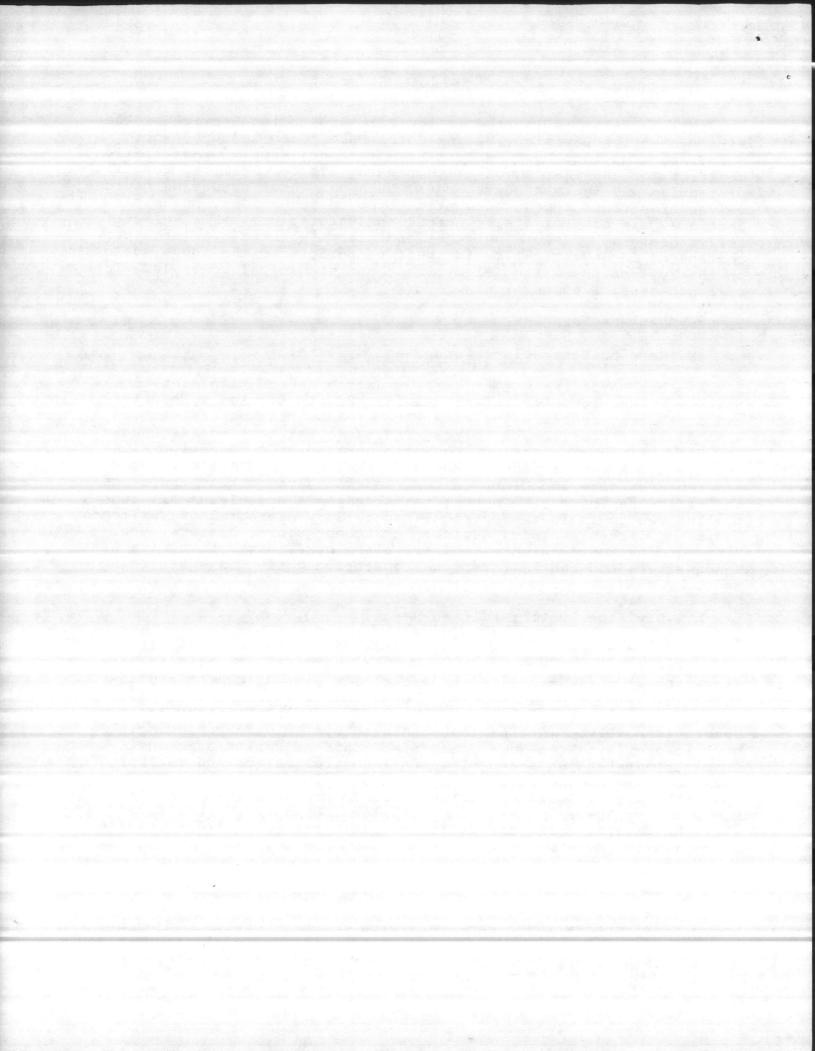
Heat-trip tests each heat-actuating device with stop-clock, tests air line restrictors, checks for and repairs leaks in water and air lines, checks water flow rate, resets trip valves, checks and adjusts mercury check valves with manometer test board, checks and adjusts other releasing mechanism working in conjunction with mercury check valves, checks water flow alarms, packs, lubricates and replaces gate and globe valves, renews valve gaskets and seats and calibrates gauges. Checks, tests, adjusts and cleans all control valves to include electrical supervisory alarm relays, switches, indicator lights, warning devices, air compressors, heaters, etc. Plugs and/or jumps out station fire alarm boxes wired into Fire Alarm Headquarters and checks for proper operation while tests are being made.

## b. Dry Pipe Systems--Closed Heads:

Stop-clock tests at inspector's test valve the time it takes for water to reach this valve and then stop-clock tests water flow rate at this valve, Checks water flow alarms, checks and adjusts quick-tripping exhauster, checks and adjusts globe valves, renews valve gaskets and seats, checks for and repairs any leaks. Resets trip valves, drains low points in system before placing back in operation replaces damaged and painted sprinkler heads. Checks, tests, adjusts and cleans all control valves and control devices to include electrical supervisory alarm relays, switches, indicator lights, warning devices, air compressors, heaters, etc. Plugs and/or jumps out station fire alarm boxes wired into Fire Alarm Headquarters and checks for proper operation while tests are being made.

## c. Wet Pipe Systems -- Closed Heads:

Stop-clock tests at inspector's test valve the rate of water flow, checks and cleans retarding chamber, checks, adjusts and resets releasing mechanisms, packs, lubricates and replaces gate and globe valves; renews valve gaskets and seats; repairs leaks; replaces



painted heads; keeps water pressure on system side of main trip valve at a save pressure above normal water pressure of mains to avoid false alarms caused by water surges; checks, tests, adjusts and cleans all control valves and control devices to include electrical supervisory alarm relays, switches, indicator lights, warning devices, heaters; plugs and/or jumps out station fire alarm boxes wired into Fire Alarm Headquarters and checks for proper operation while tests are being made.

- d. Makes repairs by replacing pipe, valves, fittings, sprinkler heads, elctrical devices, control valves, etc., on sprinkler systems developing trouble or becoming damaged when struck by weigh-hand-ling equipment, or from any cause.
- e. Works in an advisory capacity and with pipefitters, electricians, Fire Alarm Mechanics, and other instrument and control technicians to provide adequate sprinkler systems protection in buildings that are under-going structural changes.
- f. Maintains a close liaison with Fire Alarm Headquarters, answering fire alarms on buildings with sprinkler systems during normal work hours. Investigates and makes written reports on any unusual developments pertaining to sprinkler systems.
- g. Makes daily visual checks on sprinkler systems requiring extra close attention and makes a written report on each month on work performed.

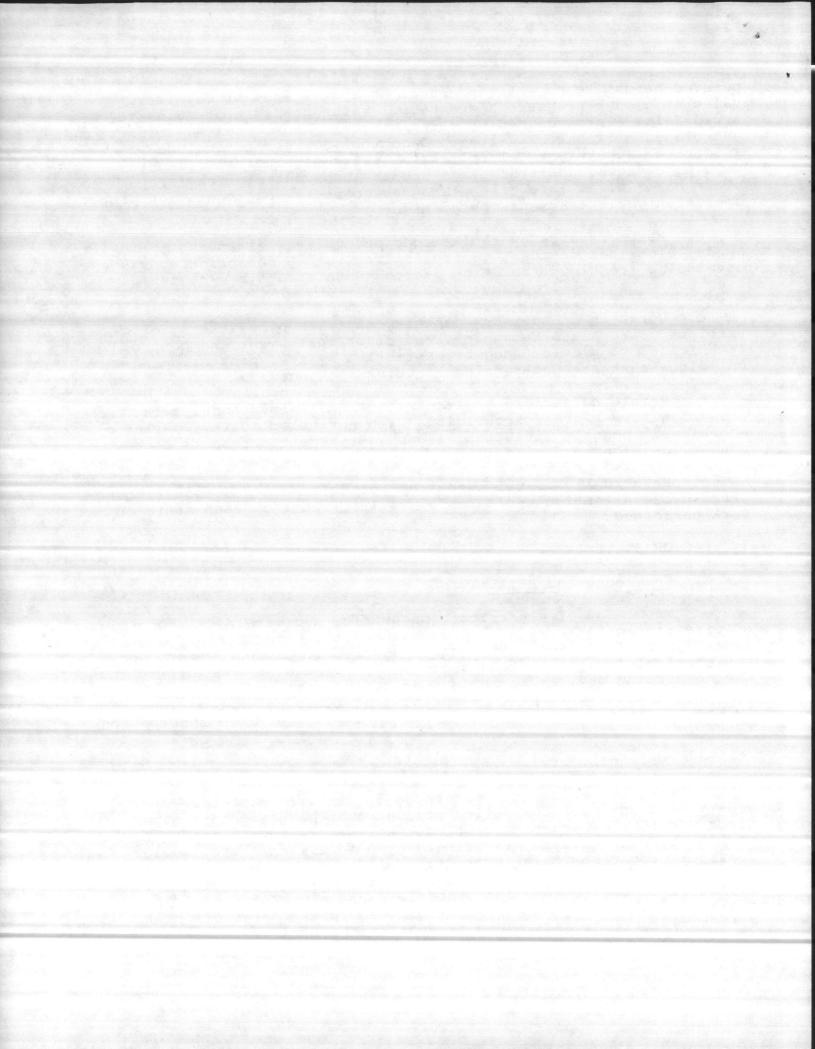
### 3. FACTOR STATEMENT

# a. Knowledge and Skill:

Knowledge of electrical, pneumatic, and mechanical controls of fire protection systems. Knowledge of the principles of operations, assembly, installation, maintenance and repair of CO2, water, and dry chemical fire protection systems. Knowledge of and ability to use measureing devices to include electrical related such as ohmmeter, etc. Ability to interpret blueprints, sketches, specifications and to use practical mathematics. Skill in laying out fire suppression sytems.

## b. Responsibility:

Must be capable of performing duties with a minimum of supervision and meet inspection standards of his immediate supervisor who is the Deputy Fire Chief. Advises responsible persons in activities when material is being stored in a manner that would restrict proper sprinkler protection and/or operation. Sprinkler manuals, and guides are occasionally referred to. Failure of a sprinkler system to function properly could cause extensive loss or damage to buildings, materials, tools, equipment, production and work interruptions and injury or death to workers.



### c. Physical Demands:

Occasionally participates in the handling of material weighing as much as five hundred (500) pounds. Average weights handled range from one (1) to one-hundred (100) pounds and have to be carried up and down stairs. Weight-handling equipment and other workers are available. Work involves kneeling, crouching, stooping, crawling, climbing and strained, awkward work positions; work requires close attention of eyes, color vision and analysis by ear.

## d. Working Conditions:

Performs work above and around moving machinery, equipment and in hazardous areas. Much work is performed fifty to sixty feet above floor level. Injuries could range from thos of minor to a major nature.

Majority of work is performed indoors; subject to work infrequently in extreme heat, around dust, noise, poor ventilation, poor illumination, dampness, etc., averaging about 10% of the time.

## 4. EXPLANATORY STATEMENTS

As indicated in the above statements a Sprinkler Mechanic must have a thorough knowledge of installation and testing procedures, repairs and maintenance of sprinkler systems, CO2 systems, dry chemical systems, and halon systems for fire protection. He must be a qualified artisan with plumbing and pipefitting experience and a practical knowledge of electricity, electrical and pneumatic control devices, electrical installation procedures, and be able to trouble-shoot and make repairs on related electrical circuits, switches, etc.

